Fig. 1



Plasmid map of pREP9-IL8p-gpt-neo showing restriction sites: Spe I, Xba I, Hind III, BamH I, SVpA, TKpA, TKp, Bgl II, Amp, Cla I, EBNA-1, Ori P, IL8p, gpt, neo.
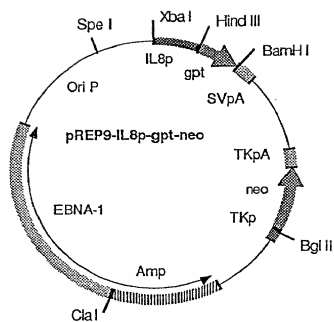
Fig. 2

primer SR1 :5'- ATGAGCTCAGAACCAGCTGTGGAATG
                    SacI

primer SR2 :5'- CTGTTCTGCGCCGTTACAAAACCAGAAAGTTAACTG

primer SR3 :5'- TTACTTCTGCTCTAAAAGCTGGCGCGCCCTGCAGT

primer SR4 :5'- TCACCTAAATCGTATGTGCCAGACATGATAAGATACAT

primer SR5 :5'- CAGTTAACTTTCTGGTTTTGTAACGGCGCAGAACAG

primer SR6 :5'- ACTGCAGGGCGCGCCAGCTTTTAGAGCAGAAGTAA

primer SR7 :'5'- ATGTATCTTATCATGTCTGGCACATACGATTTAGGTGA

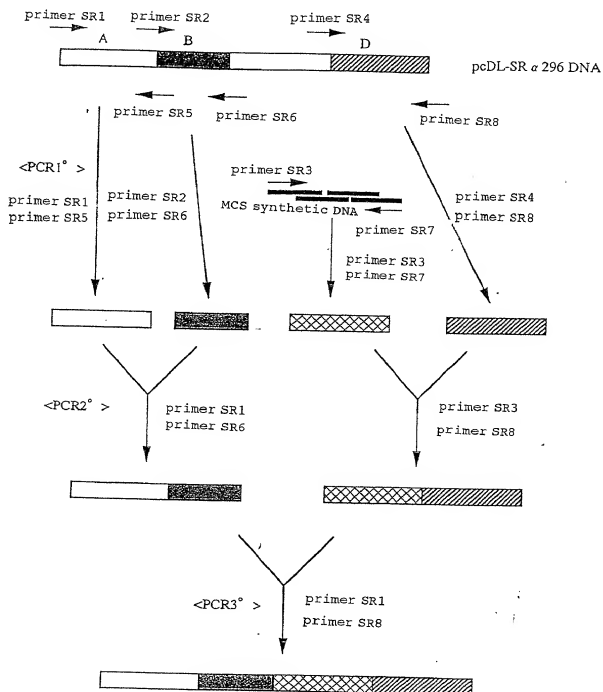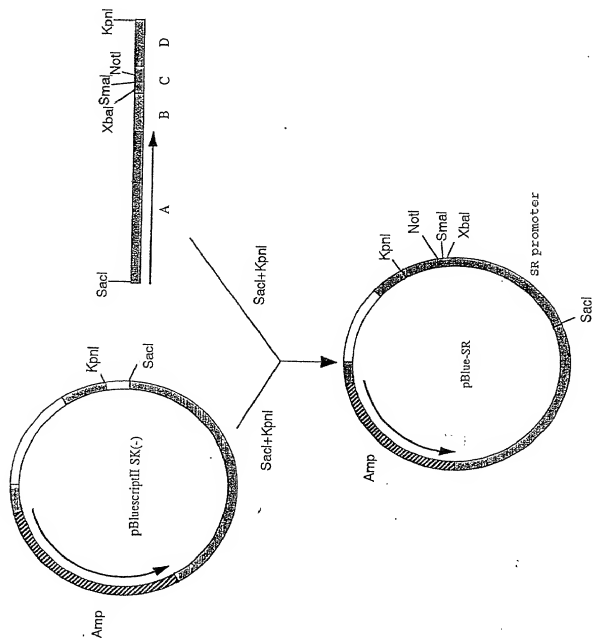primer SR8 :5'- TAGGTACCGTCGACCCCTGAACCTGAAACATAAAA
                    KpnI

Fig. 4

Fig. 5

Fig. 3

```
         10        20        30        40        50        60
GGCGCGCCCT GCAGTCTAGA GAATTCCCAC GAATCAAATG GCTCGGGCCA GAAGATGCAT
                                  CTTAGTTTAC CGGGCCCGGT CTTCTACGTA

         70        80        90        100       110
GGCTCGAGGC GGCCGCAAGC TTCTATAG
CCGAGCTCCG CCGGCGTTCG AAGATATCAC AGTGGATTTA GCATACAC
```

MCS-1: DNA sequence represented by _____
MCS-2: DNA sequence represented by ~~~~~
MCS-3: DNA sequence represented by ........
MCS-4: DNA sequence represented by _____

Fig. 6

SRO-1: 5'- ATGAGCTCAGAACCAGCTGTGGAATG -3'

SRO-2: 5'- CCGAGGCAAGCTTGGCCTCGGCCTCTGCATAAA -3'

SRO-3: 5'- CGAGGCCAAGCTTGCCTCGGCCTCTGAGCTATT -3'

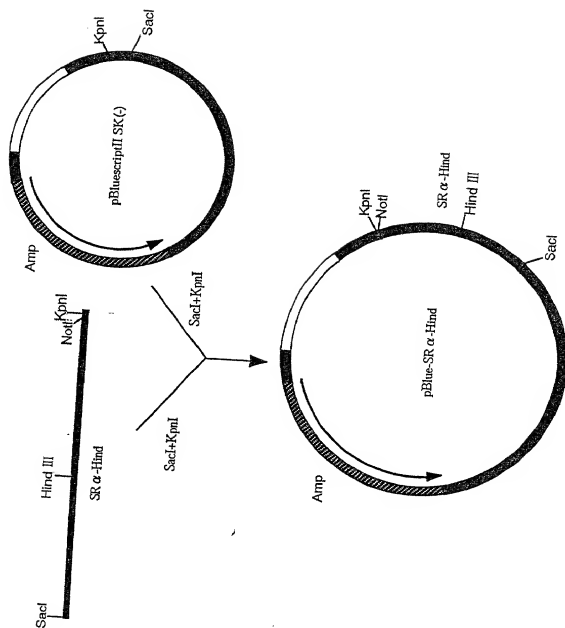SRO-4: 5'- ATGGTACCGCGGCCGCGTAACGGCGCAGAACAGAAAA -3'

Fig. 8

Fig. 7

SacI

```
ATGAGCTCAGAACCAGCTGTGGAATGTGTGTCAGTTAGGGTGTGGAAAGTCCCCAGAGGCTCCCCAGCAGGCCAGAAGT
ATGCAAGCATGCATCTCAATTAGTCAGCAACCAGGTGTGGAAAGTCCCCAGCGCTCCCCAGCAGGCCAGAAGTTATGC
AAAGCAATGCATCTCAATTAGTCAGCAACCATAGTCCCGCCCCCTTAACTCCGCCCCATCCCGCCCCCTTAACTCCGCCCCAG
                                                                        HindIII
TTCCGCCCATTCTCCGCCCATGGCTGACTAAATTTTTTTATTTATGCAGAGAGCCGAGGCCCAAGCCTTGCCTCCGGCC
TCTGAGCTATTCCAGAAGTAGTGAGGCAGGGCTTTTTTTGGAGGCCTAGGCTTGGGCTCGCATCTCTCCTTCACGCGGC
CCGCGCCCCTACCTGAGGCCCGCCATCCACCCCGGTTGAGTCGCGGTTCTGCCGCCTCCCGCCTGTGGTGCCTCCTGA
ACTGCGGTCCGGCCTCTAGGTAAGTTTAAAGCTCAGGTCGAGACCGGGGCCTTTGTCCGGCGCGTCCCCTTGGAGCCTAC
CTAGACTCAGCGCGGCGTCTCCACCGCTTTGCCTGACCCTGCTTGCTCAAACTCTACGTCTTTGTTTCGTTTTCTGTTTCT
         NotI        Asp718I
GCGCCCGTTACGCGCCGCCGTACCAT
```

Fig. 9

Lac operator of POPI3

BamHI
AGCTTGGTTGGAATCTAAAATACACAAACAATTAGGATCCCTGAGGAGCAGTTCTTTGAT
     ACCAACCTTAGATTTTATGTGTTTGTTAATCCTAGGGACTCCTCGTCAAGAAACTA
TTGCACCACCAGGAGCCTCAAATTTTTCAATAAATTCACCTGACTGCACATTAGGACTTT
AACGTGGTGGTCCTCGGAGTTTAAAAAGTTATTTAAGTGGACTGACGTGTAATCCTGAAA
GGCTTTGAGCTTCCCACCTCTCAGTTACTTGCTGAATACTGTCTGCTTCATCAATATTAT
CCGAAACTCGAAGGGTGGAGAGTCAATGAACGACTTATGACAGACGAAGTAGTTATAATA
CATAGGTGTGCCCAAATGATATTTGCAACCCTTCCCTGTTGGCTACTTGTCTCACCATTG
GTATCCACACGGGTTTACTATAAACGTTGGGAAGGGACAACCGATGAACAGAGTGGTAAC
BamHI                              SalI
TAGGCCTAATGGGAGACGGATCCGTAGTTTAACACATTATACACTAGGGTCGACTGTGGA
ATCCGGATTACCCTCTGCCTAGGCATCAAATTGTGTAATATGTGATCCCAGCTGACACCT
                                SalI
ATTGTGAGCGCTCACAATTCCACAACCTAGGGTCGACTGTGGAATTGTGAGCGCTCACAA
TAACACTCGCGAGTGTTAAGGTGTTGGATCCCAGCTGACACCTTAACACTCGCGAGTGTT
         SalI
TTCCACAACCTAGGGTCGACTGTGGAATTGTGAGCGCTCACAATTCCACAACCTAGTAAA
AAGGTGTTGGATCCCAGCTGACACCTTAACACTCGCGAGTGTTAAGGTGTTGGATCATTT
TTTTATATTTACCTTAGAGCTTTAAATCTCTGTAGGTAGTTTGTCCA
AAAAATATAAATGGAATCTCGAAATTTAGAGACATCCATCAAACAGGTTCGA

pBlue-SRα-Hind
  NotI
  KpnI
  HindIII
  SacI

HindIII

HindIII

pBlue-SRα-lacO
  NotI
  KpnI
  HindIII
  BamHI
  Lac operator of POPI3
  BamHI
  HindIII
  SacI

Fig. 10



pBlue-SR α-lacO

NotI
HindIII
BamHI
BamHI
HindIII
SacI

pBlue-SR

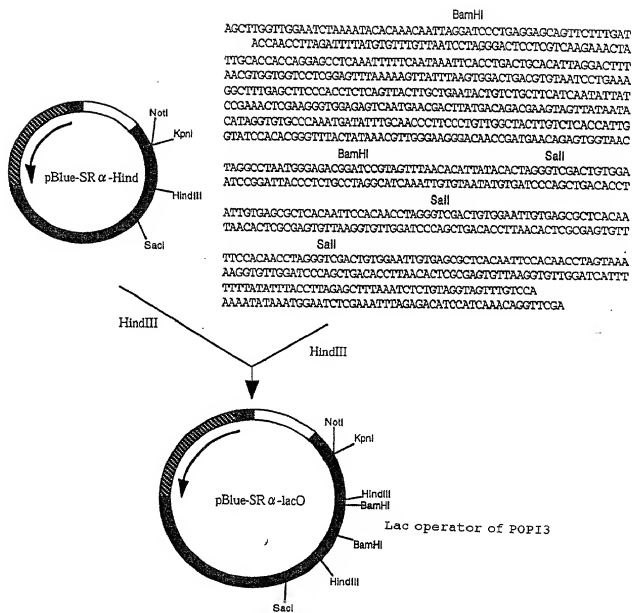KpnI
XbaI
SacI

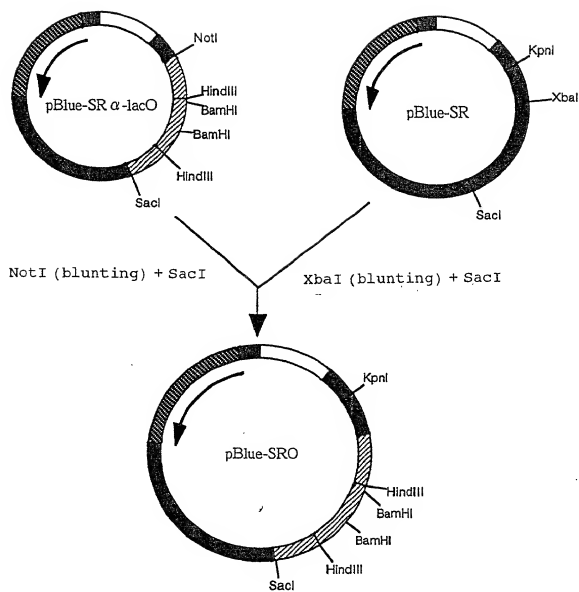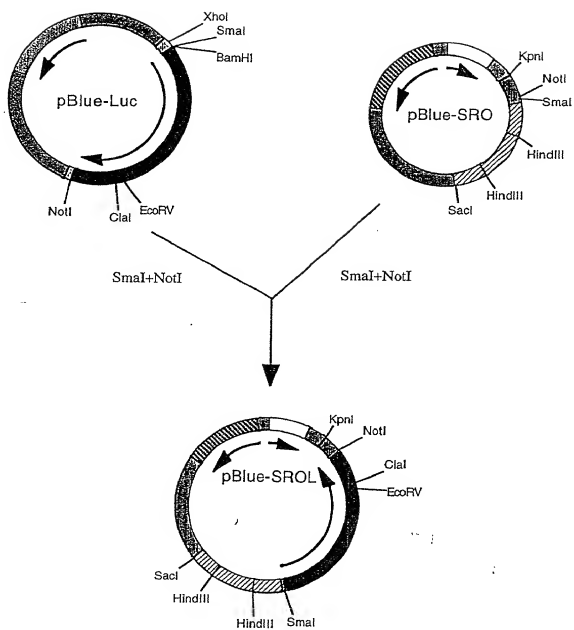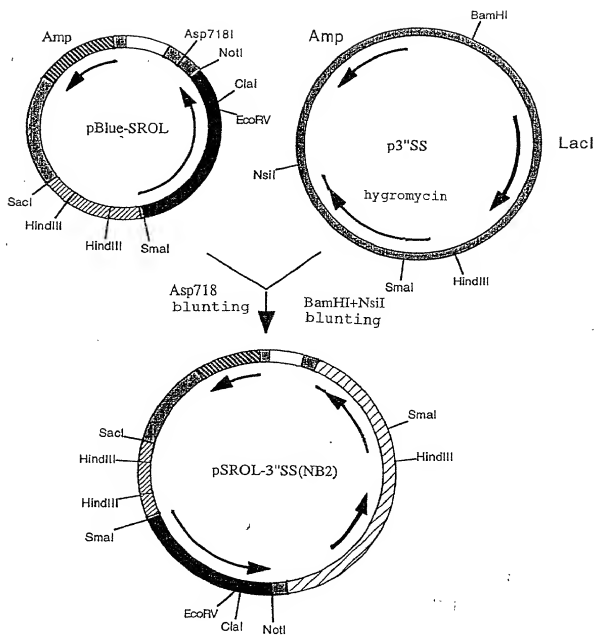NotI (blunting) + SacI

XbaI (blunting) + SacI

pBlue-SRO

KpnI
HindIII
BamHI
BamHI
HindIII
SacI

Fig. 11

Fig. 12

Fig. 13

Fig. 14



Sma I/Hinc II

Hind III

f1 ori

IL8p

pIL8p-Luc

Amp^r
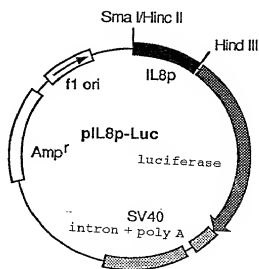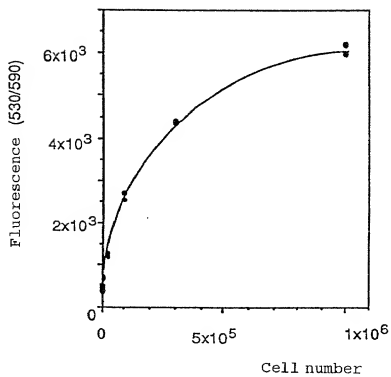
luciferase

SV40
intron + poly A

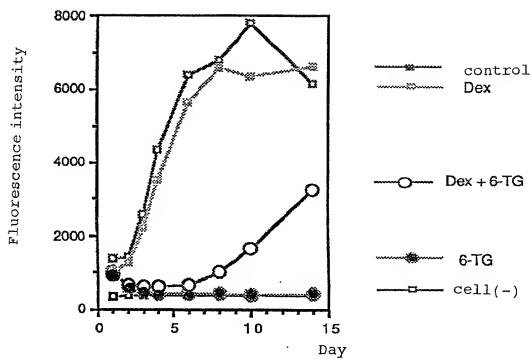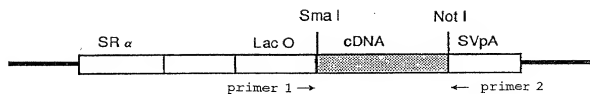Fig. 15



Cell number

Fig. 16

Fig. 17



primer 1    5'-TCGCGATTCCCACGAATCAAATGGC-3' (with the NruI site at 5' end)
primer 2    5'-TCTGGCACATACGATTTAGGT

Fig. 18